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E Zadok, I Badulescu, A Shender - 1998 - Citeseer

... Cryptfs uses the Blowfish[18] **encryption** algorithm and determines key access in one of two ... Cryptfs also achieves greater performance by running in the **kernel** and by avoiding the NFS ... **Node** or "vnode" is a data structure used within Unix-based **operating systems** to represent ...

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S Bhatti, J Carlson, H Dai, J Deng, J Rose, A ... - Mobile Networks and ..., 2005 - Springer

... Together, the code size of the **kernel**, scheduler, and network stack occupies less than 500 bytes of RAM ... FFT (floating point) 30 sec [42] RC5 **encryption** (12 rounds) 2 ms/32 bytes AES **encryption** (no pre ... MANTIS OS: AN EMBEDDED MULTITHREADED **OPERATING SYSTEM** ...

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E Zadok, I Badulescu - LinuxExpo Conference Proceedings, 1999 - Citeseer

... Before stacking existed, there was only a single vnode interface; higher level **operating system** code called ... as well (other than "." and ".." so as to keep the lower level **file system** intact). ... To solve this, we also uuencode **file** names after **encrypting** them, and uudecode them before ...

[Cited by 31](#) - [Related articles](#) - [View as HTML](#) - [All 35 versions](#)[PDF] Extending **file systems** using stackable templates[usenix.org \[PDF\]](#)

E Zadok, I Badulescu, A Shender - Proceedings of the Annual USENIX ..., 1999 - usenix.org

... **Kernel** ... An **encryption** file system, for example, can use an ioctl to set **encryption** keys. ... keeping caches synchronized through a centralized cache manager was proposed by Heidemann[5]. Unfortunately, that solution involved modifying the rest of the **operating system** and other ...

[Cited by 58](#) - [Related articles](#) - [View as HTML](#) - [All 36 versions](#)[PDF] Cryptographic Filesystems. Part One: Design and Implementation[leetupload.com \[PDF\]](#)

I Dubrawsky - Security Focus, 2007 - leetupload.com

... **File system** encryptors allow the **encryption** of **files** on a per-**file** or a per ... One implementation of a cryptographic filesystem is through the use of a **kernel**-resident filesystem. ... Unix-based **operating systems** use vnodes to represent an open **file**, directory, device, or other objects. ...

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### Mantis: **System** support for multimodal networks of in-situ sensors

[psu.edu \[PDF\]](#)

H Abrach, S Bhatti, J Carlson, H Dai, J Rose ... - Proceedings of the ..., 2003 - portal.acm.org

... Thus, the sensor network can be accessed from any **virtual node**, easing development of applications ... information—including thread status, stack fill, and other such statistics—from the **operating system**. The boot loader transfers control to the MOS **kernel** on command from the ...

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### [PDF] Stackable **file systems** as a security tool

[psu.edu \[PDF\]](#)

E Zadok - Columbia University CS TechReport CUCS-036-99, 1999 - Citeseer

... An **encryption file system** (such as the one described in Section 4.9) might use an ioctl mechanism to set **encryption** keys. ... Solaris is a popular commercial **operating system**, and it includes a standard vnode interface. In addition, we had access to **kernel** sources. ...

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### [PDF] Stackable Layers: An Object-Oriented Approach to Distributed **File System** ...

[psu.edu \[PDF\]](#)

TW Page Jr, GJ Popek, RG Guy - ... Orientation in **Operating Systems**, 1990 - Citeseer

... of the **operating system kernel** interacts with the le **system** via the **virtual node** (vnode) interface ... The next layer up might provide secure storage, **encrypting** data as it passes down ... implementation as been the ability to debug the new layers outside of the **operating system kernel**. ...

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### **System** for reverse sandboxing

A Basu, S Mitra - US Patent 6,836,888, 2004 - Google Patents

... To counter an off-line attack on the physical media that does not go through the **operating system**, the processing stack of an illustrative implementation may provide media- tion modules that implement a secure ... This **file system** automatically **encrypts** and decrypts ...

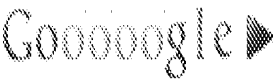
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### VIRTUALIZATION OF **FILE SYSTEM ENCRYPTION**

M Kandasamy, GM Koikara, PP Nataraj, V ... - 2008 - freepatentsonline.com

... **file system** that is only an interface or intermediary between the concrete **file system** and the **operating system kernel**. Virtual **file system** 400 includes **encryption** layer 410 ... **Encryption** layer 410 is a software component for **encrypting** and de-**encrypting** data that is being written to ...

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